

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference SJB/PG5041	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/EP 03/13799	International filing date (day/month/year) 04/12/2003	(Earliest) Priority Date (day/month/year) 06/12/2002
Applicant GLAXO GROUP LIMITED		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☒ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☐ the text is approved as submitted by the applicant.

☒ the text has been established by this Authority to read as follows:

PYRROLIDIN-2-ONE DERIVATIVES AS INHIBITORS OF THROMBIN AND FACTOR XA

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☐ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

☐ None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/13799

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07D207/26 C07D409/12 C07D401/12 C07D413/14 C07D405/12
 C07D417/14 C07D417/06 C07D409/14 A61K31/4025

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 99/62904 A (CHOI SLEDESKI YONG MI ; GONG YONG (US); LEVELL JULIAN (US); PAULS HEIN) 9 December 1999 (1999-12-09) the whole document	1-11
A	WO 93/01208 A (BASF AG) 21 January 1993 (1993-01-21) page 23, line 1 - page 23, line 6; claims 1-3; example 60	1-11
P, A	WO 02/100886 A (SHAH GITA PUNJABHAI ; YOUNG ROBERT JOHN (GB); SENGHER STEFAN (GB); CHAN) 19 December 2002 (2002-12-19) cited in the application the whole document	1-11

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Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents :

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

G document member of the same patent family

Date of the actual completion of the international search

9 March 2004

Date of mailing of the international search report

19/03/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Von Daacke, A

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/13799

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
P,A	WO 02/100830 A (SHAH GITA PUNJABHAI ; YOUNG ROBERT JOHN (GB); SENER STEFAN (GB); CHAN) 19 December 2002 (2002-12-19) cited in the application the whole document -----	1-11
P,A	WO 03/043981 A (KLEANTHOUS SAVVAS ; YOUNG ROBERT JOHN (GB); SENER STEFAN (GB); CHAN C) 30 May 2003 (2003-05-30) the whole document -----	1-11

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP 03/13799

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

Although claim 10 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/13799

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9962904	A	09-12-1999	US 6602864 B1	05-08-2003
			AU 758642 B2	27-03-2003
			AU 4329899 A	20-12-1999
			BR 9910899 A	09-10-2001
			CA 2333994 A1	09-12-1999
			EP 1086099 A1	28-03-2001
			JP 2002517393 T	18-06-2002
			NO 20005912 A	31-01-2001
			WO 9962904 A1	09-12-1999
			US 6281227 B1	28-08-2001
			US 2002013310 A1	31-01-2002
WO 9301208	A	21-01-1993	DE 4121947 A1	07-01-1993
			AT 166065 T	15-05-1998
			CA 2112580 A1	21-01-1993
			DE 59209327 D1	18-06-1998
			DK 668869 T3	07-10-1998
			WO 9301208 A1	21-01-1993
			EP 0668869 A1	30-08-1995
			ES 2115673 T3	01-07-1998
			JP 3330600 B2	30-09-2002
			JP 6509076 T	13-10-1994
			MX 9203910 A1	01-01-1993
			US 5489583 A	06-02-1996
WO 02100886	A	19-12-2002	WO 02100886 A1	19-12-2002
WO 02100830	A	19-12-2002	CA 2449629 A1	19-12-2002
			WO 02100830 A1	19-12-2002
WO 03043981	A	30-05-2003	WO 03043981 A1	30-05-2003